

Title (en)

Device, measuring apparatus and method for handling microfluidic platforms

Title (de)

Vorrichtung, Messgerät und Verfahren zur Handhabung mikrofluidischer Plattformen

Title (fr)

Dispositif, appareil de mesure, et procédé pour la manipulation de plateformes microfluidiques

Publication

EP 1647824 A1 20060419 (DE)

Application

EP 05022253 A 20051012

Priority

DE 102004050062 A 20041013

Abstract (en)

A sample manipulation device (1) for taking-up and studying or manipulating a sample liquid comprises microfluidic platforms (2), in a sealed state, directly joined to one another and/or located on a common carrier (10). Each of the platforms is individually separated and individually opened. Independent claims are also included for: (1) measuring instrument for studying a sample liquid using a microfluidic platform, comprising a mechanism for holding a multiplicity of single-use platforms; (2) a process for studying or manipulating a sample liquid using a microfluidic platform that takes up the sample liquid, comprising delivering platforms as above, individually opening and separating the platforms as needed, and immediately following opening and separating of a platform, performing the studying or manipulation of the sample liquid; and (3) microfluidic platform assembly, comprising microfluidic platforms as above covered by a common or continuous covering, which covers an opening of a take-up channel (5) for taking up the sample liquid and/or an opening of a vent channel (7) of each platform, where each of the platforms is adapted to be individually separated and is adapted to be individually opened by removing at least a portion of the covering, so that at least one of the channels is opened.

IPC 8 full level

G01N 33/487 (2006.01)

CPC (source: EP US)

G01N 33/48764 (2013.01 - EP US)

Citation (applicant)

- WO 03045557 A2 20030605 - LAB901 LTD [GB], et al
- US 5514152 A 19960507 - SMITH ROGER E [US]

Citation (search report)

- [X] US 5514152 A 19960507 - SMITH ROGER E [US]
- [Y] DE 19815684 A1 19991014 - ROCHE DIAGNOSTICS GMBH [DE]
- [Y] US 2003024811 A1 20030206 - DAVIES OLIVER WILLIAM HARDWICK [GB], et al
- [A] DE 4326339 A1 19950209 - BOEHRINGER MANNHEIM GMBH [DE]
- [A] DE 10244775 A1 20040408 - ROCHE DIAGNOSTICS GMBH [DE]

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1647824 A1 20060419; EP 1647824 B1 20101222; AT E492809 T1 20110115; DE 102004050062 A1 20060427; DE 502005010705 D1 20110203; EP 1914547 A1 20080423; EP 1914547 B1 20130306; JP 2006113068 A 20060427; JP 4975997 B2 20120711; US 2006078469 A1 20060413; US 7815857 B2 20101019

DOCDB simple family (application)

EP 05022253 A 20051012; AT 05022253 T 20051012; DE 102004050062 A 20041013; DE 502005010705 T 20051012; EP 07023722 A 20051012; JP 2005299361 A 20051013; US 24758405 A 20051012